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APR 14 1966



Dairy-Herd-Improvement Letter

ARS-44-173
(Vol. 42, No. 1)

January-February 1966

1,749,752 LACTATION RECORDS REPORTED IN 1965

The number of lactation records reported to the USDA for genetic appraisal and research was 1,749,752 in 1965, 311,793 more than in 1964. Of these, 54.2 percent were reported on magnetic tape, 42.6 percent on punched USDA 1095 cards, and 3.2 percent on hand-recorded USDA 718 cards. These figures are summarized by States in table 1.

Since 1956, the number of cows enrolled in DHIA has increased 48 percent, while the number of lactation records reported to the USDA has increased 166 percent. As a result, the percent of cows on test having reported records has increased from 47 to 84 percent since 1956. This more complete reporting is attributed largely to the continued development of central processing of DHIA records. A summary of the records reported since 1956 is shown below:

<u>Year</u>	<u>DHIA cows enrolled</u> (Number)	<u>Lactation records reported to USDA</u> (Number)	<u>Pct. of DHIA cows represented by records reported</u> (Percent)
1956	1,406,306	658,086	47
1960	1,746,752	886,495	51
1964	2,010,144	1,437,959	72
1965	2,087,581	1,749,752	84

CONTINUED INCREASE IN CENTRAL-PROCESSING OF LACTATION RECORDS

In 1965, 96.8 percent of the lactation records reported to USDA were centrally processed. The benefits to be derived from centrally processed DHIA herd books and records have been thoroughly demonstrated during the last 10 years. It is hoped

Issued March 1966

that dairymen who have not converted to the improved system will do so soon.

18,619 SUMMARIES OF SIRES IN 1965

In the four quarterly sire evaluations in 1965, 18,619 summaries were made of sires in DHIA. (Individual sire records sent to the States are given by breed in table 2.) Seventy-five percent of the sire summaries represented sires in natural service, averaging 13.9 daughter-herdmate pairs per summary and a total of 194,489 daughter-records. The remaining 25 percent included summaries for sires used in artificial insemination and 1,180,593 daughter-records averaging 253 daughter-herdmate pairs per summary.

During 1965, a total of 61,538 copies of individual sire records were made available to the cooperating States.

16,142 DHIA COWS INDEXED IN 1965

A total of 16,142 DHIA cows, representing the top 2 percent of registered progeny of bulls summarized in 1965, were indexed in the two evaluations performed.

TABLE 1.--Production records reported to the USDA for quarterly evaluations in 1965 ^{1/}

State	DHIA cows on test 1-1-65	1965 production records					1964 production records	
		Hand recorded (718 cards)	Punched (1095 cards) 2/	Magnetic tape	Total			
	Number	Number	Number	Number	Number	Percent 3/	Number	Percent 3/
Ala-----	26,510	---	25,742	---	25,742	97.1	22,098	98.1
Alaska-----	385	36	11	178	225	58.4	132	25.3
Ariz-----	20,206	---	3,631	---	3,631	18.0	3,878	19.1
Ark-----	3,149	---	127	3,934	4,061	129.0	3,826	106.1
Calif-----	350,987	4,175	55,248	147	59,570	17.0	17,048	5.4
Colo-----	14,414	---	5,569	---	5,569	38.6	5,803	44.7
Conn-----	22,687	1,921	192	20,903	23,016	101.5	14,788	65.7
Del-----	4,234	---	124	4,551	4,675	110.4	4,643	125.4
Fla-----	18,086	792	13,122	---	13,914	76.9	15,548	83.0
Ga-----	28,493	442	25,147	---	25,589	89.8	18,659	69.7
Hawaii-----	1,970	---	49	284	333	16.9	162	5.2
Idaho-----	27,077	2,496	2,531	8,575	13,602	50.2	10,505	36.6
Ill-----	64,256	314	56,808	---	57,122	88.9	61,540	96.2
Ind-----	43,381	---	38,113	17,464	55,577	128.1	46,136	114.5
Iowa-----	61,732	797	22	64,487	65,306	105.8	59,454	103.5
Kans-----	31,643	1,314	62	33,730	35,106	110.9	29,453	89.0
Ky-----	20,920	1,580	18,299	---	19,879	95.0	16,438	74.7
La-----	4,882	330	3,893	---	4,223	86.5	3,895	73.9
Maine-----	19,958	1,185	58	17,912	19,155	96.0	18,400	95.2
Md-----	43,959	3,808	312	33,299	37,419	85.1	42,089	92.8
Mass-----	22,168	975	59	21,643	22,677	102.3	22,466	100.9
Mich-----	90,722	---	114,115	---	114,115	125.8	82,537	95.7
Minn-----	126,440	11,145	93,306	---	104,451	82.6	94,050	74.7
Miss-----	13,402	55	13,014	---	13,069	97.5	8,745	77.2
Mo-----	25,130	1,633	59	17,144	18,836	75.0	12,990	53.4
Mont-----	3,946	850	1,095	---	1,945	49.3	1,511	37.3
Nebr-----	14,400	66	216	14,803	15,085	104.8	12,133	91.5
Nev-----	3,849	---	1,915	---	1,915	49.8	1,968	51.1
N. H-----	11,866	---	57	12,991	13,048	110.0	13,951	107.9
N. J-----	30,124	1,904	594	22,753	25,251	83.8	18,804	62.7
N. Mex-----	4,282	---	2,325	---	2,325	54.3	2,025	37.8
N. Y-----	173,363	---	8	186,588	186,596	107.6	179,765	107.3
N. C-----	44,283	---	46,185	---	46,185	104.3	46,747	108.9
N. Dak-----	6,015	420	---	6,184	6,604	110.0	6,313	95.5
Ohio-----	89,598	71	77,513	33,479	111,063	124.0	75,655	93.9
Okla-----	11,250	---	---	11,472	11,472	102.0	9,133	86.2
Oreg-----	27,215	4,176	1,197	10,681	16,054	59.0	19,576	71.9
Pa-----	175,423	---	937	210,191	211,128	120.4	102,759	59.5
P. R-----	4,575	---	---	---	---	---	---	---
R. I-----	2,276	---	25	2,144	2,169	95.3	6,760	268.5
S. C-----	21,350	---	21,646	---	21,646	101.4	21,634	108.9
S. Dak-----	6,742	---	---	7,553	7,553	112.0	7,109	103.4
Tenn-----	26,809	---	24,810	---	24,810	92.5	14,947	58.6
Tex-----	27,751	837	22,482	---	23,319	84.0	20,172	72.6
Utah-----	19,056	---	15,099	---	15,099	79.2	16,428	90.1
Vt-----	47,721	5,344	58	30,685	36,087	75.6	33,790	71.4
Va-----	61,214	1,764	57,301	---	59,065	96.5	57,126	93.0
Wash-----	54,870	7,720	1,790	20,775	30,285	55.2	25,592	50.4
W. Va-----	6,186	714	---	4,775	5,489	88.7	5,815	59.8
Wis-----	125,446	---	133	128,255	128,388	102.3	122,533	103.8
Wyo-----	1,180	---	309	---	309	26.2	430	33.2
U. S-----	2,087,581	56,864	745,308	947,580	1,749,752	83.8	1,437,959	71.5

^{1/} Includes only records reported in time for use in the quarterly sire evaluations in 1965.

^{2/} Includes lactation records from the American Guernsey Cattle Club.

^{3/} Records are expressed as percent of cows enrolled in DHIA. Percentages vary by State and may exceed 100 percent depending upon reporting and processing procedures in December and January of each year and year to year changes in reporting procedures.

TABLE 2.--Number of sire records summarized in 1965, by States, by breed

State	Ayrshire	Guernsey	Holstein	Jersey	Brown Swiss	Shorthorn	Red Dane	Other	Red Poll	Total
	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
Maine-----	57	158	493	141	27	8	--	-	-	884
New Hampshire-----	111	152	546	145	45	9	--	-	-	1,008
Vermont-----	107	195	985	346	85	3	--	-	-	1,721
Massachusetts-----	138	258	839	206	88	5	--	-	-	1,534
Rhode Island-----	57	79	300	43	--	--	--	-	-	479
Connecticut-----	103	364	847	150	76	1	--	-	-	1,541
New York-----	234	495	2,589	391	152	8	4	-	-	3,873
New Jersey-----	29	312	910	141	104	1	--	-	-	1,497
Pennsylvania-----	188	862	2,333	319	133	21	--	1	-	3,857
Ohio-----	131	424	1,527	599	219	13	--	-	1	2,731
Indiana-----	55	447	1,026	220	141	23	3	2	-	1,917
Illinois-----	95	465	1,385	204	202	24	--	-	1	2,376
Michigan-----	62	348	1,815	235	118	21	12	-	-	2,611
Wisconsin-----	69	640	2,416	235	234	37	--	-	2	3,633
Minnesota-----	129	334	1,518	217	157	48	--	-	-	2,403
Iowa-----	108	303	1,487	286	205	65	--	-	2	2,456
Missouri-----	--	206	640	180	41	24	--	-	-	1,091
North Dakota-----	3	48	305	12	51	6	--	-	-	425
South Dakota-----	53	33	462	35	55	--	--	-	-	638
Nebraska-----	17	178	610	73	89	29	--	-	-	996
Kansas-----	86	169	772	121	95	20	--	-	-	1,263
Delaware-----	30	83	358	36	20	--	--	-	-	527
Maryland-----	88	361	1,139	126	108	11	--	-	-	1,833
Virginia-----	74	400	1,068	143	78	4	--	-	-	1,767
West Virginia-----	46	67	428	83	6	--	--	-	-	630
North Carolina-----	49	286	816	224	52	--	--	-	-	1,427
South Carolina-----	17	307	495	205	59	--	--	-	-	1,083
Georgia-----	54	127	597	151	62	--	--	-	-	991
Florida-----	25	291	307	219	33	--	--	-	-	875
Kentucky-----	13	125	652	168	59	--	--	-	-	1,017
Tennessee-----	59	256	464	287	80	14	--	-	-	1,160
Alabama-----	30	143	337	187	32	2	--	-	-	731
Mississippi-----	51	219	185	193	37	--	--	-	-	685
Arkansas-----	7	83	264	47	12	15	--	-	-	428
Louisiana-----	6	186	182	89	17	--	--	-	-	480
Oklahoma-----	48	132	434	91	29	27	--	-	-	761
Texas-----	44	147	648	287	62	1	--	-	-	1,189
Montana-----	3	22	130	21	22	2	--	-	-	200
Idaho-----	13	146	522	150	28	5	--	-	-	864
Wyoming-----	--	10	80	--	6	--	--	-	-	96
Colorado-----	16	130	465	59	57	3	--	-	-	730
New Mexico-----	--	95	197	51	--	--	--	-	-	343
Arizona-----	2	136	316	45	5	--	--	-	-	504
Utah-----	15	85	503	77	4	--	--	-	-	684
Nevada-----	--	8	70	87	6	--	--	-	-	171
Washington-----	56	249	596	168	34	10	--	-	-	1,113
Oregon-----	17	192	353	223	39	9	--	-	-	833
California-----	33	179	929	150	76	--	--	-	-	1,367
Puerto Rico-----	--	--	36	--	--	--	--	-	-	36
Hawaii-----	--	--	29	--	--	--	--	-	-	29
Alaska-----	--	--	12	--	38	--	--	-	-	50
Total individual sire records sent to States--										61,538
Total sires summarized-----	667	3,389	11,245	2,326	765	206	12	3	6	18,619